- Trip Generation Worksheets

Institute of Transportation Engineers (ITE) 8th Edition
Land Use Code (LUC) 710 - General Office Building

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 288.7

Average Weekday Daily

Ln T = 0.77 Ln (X) + 3.65
Ln T = 0.77 Ln 288.7 + (3.65)
Ln T = 8.01
T = 3018.00
T = 3,018 vehicle trips
with 50% (**1,509** vpd) entering and 50% (**1,509** vpd) exiting.

Weekday Morning Peak Hour Of Adjacent Street Traffic

Ln T = 0.80 Ln (X) + 1.55
Ln T = 0.80 Ln 288.7 + (1.55)
Ln T = 6.08
T = 438.04
T = 438 vehicle trips
with 88% (**385** vph) entering and 12% (**53** vph) exiting.

Weekday Evening Peak Hour Of Adjacent Street Traffic

T = 1.12 * (X) + 78.81
T = 1.12 * 288.7 + (78.81)
T = 402.15
T = 402 vehicle trips
with 17% (**68** vph) entering and 83% (**334** vph) exiting.

Saturday Daily

T = 2.14 * (X) + 18.47
T = 2.14 * 288.7 18.47
T = 636.29
T = 636 vehicle trips
with 50% (**318** vpd) entering and 50% (**318** vpd) exiting.

Saturday Midday Peak Hour Of Generator

Ln T = 0.81 Ln (X) - 0.12
Ln T = 0.81 Ln 288.7 - (0.12)
Ln T = 4.47
T = 87.27
T = 87 vehicle trips
with 54% (**47** vph) entering and 46% (**40** vph) exiting.

Institute of Transportation Engineers (ITE) 8th Edition
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Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 225.7

Average Weekday Daily

Ln T = 0.77 Ln (X) + 3.65
Ln T = 0.77 Ln 225.7 + (3.65)
Ln T = 7.82
T = 2496.86
T = 2,496 vehicle trips
with 50% (**1,248** vpd) entering and 50% (**1,248** vpd) exiting.

Weekday Morning Peak Hour Of Adjacent Street Traffic

Ln T = 0.80 Ln (X) + 1.55
Ln T = 0.80 Ln 225.7 + (1.55)
Ln T = 5.89
T = 359.73
T = 360 vehicle trips
with 88% (**317** vph) entering and 12% (**43** vph) exiting.

Weekday Evening Peak Hour Of Adjacent Street Traffic

T = 1.12 * (X) + 78.81
T = 1.12 * 225.7 + (78.81)
T = 331.59
T = 332 vehicle trips
with 17% (**56** vph) entering and 83% (**276** vph) exiting.

Saturday Daily

T = 2.14 * (X) + 18.47
T = 2.14 * 225.7 18.47
T = 501.47
T = 502 vehicle trips
with 50% (**251** vpd) entering and 50% (**251** vpd) exiting.

Saturday Midday Peak Hour Of Generator

Ln T = 0.81 Ln (X) - 0.12
Ln T = 0.81 Ln 225.7 - (0.12)
Ln T = 4.27
T = 71.49
T = 71 vehicle trips
with 54% (**38** vph) entering and 46% (**33** vph) exiting.

Institute of Transportation Engineers (ITE) 8th Edition
Land Use Code (LUC) 710 - General Office Building

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 287.7

Average Weekday Daily

Ln T = 0.77 Ln (X) + 3.65
Ln T = 0.77 Ln 287.7 + (3.65)
Ln T = 8.01
T = 3009.94
T = 3,010 vehicle trips
with 50% (**1,505** vpd) entering and 50% (**1,505** vpd) exiting.

Weekday Morning Peak Hour Of Adjacent Street Traffic

Ln T = 0.80 Ln (X) + 1.55
Ln T = 0.80 Ln 287.7 + (1.55)
Ln T = 6.08
T = 436.83
T = 437 vehicle trips
with 88% (**385** vph) entering and 12% (**52** vph) exiting.

Weekday Evening Peak Hour Of Adjacent Street Traffic

T = 1.12 * (X) + 78.81
T = 1.12 * 287.7 + (78.81)
T = 401.03
T = 401 vehicle trips
with 17% (**68** vph) entering and 83% (**333** vph) exiting.

Saturday Daily

T = 2.14 * (X) + 18.47
T = 2.14 * 287.7 18.47
T = 634.15
T = 634 vehicle trips
with 50% (**317** vpd) entering and 50% (**317** vpd) exiting.

Saturday Midday Peak Hour Of Generator

Ln T = 0.81 Ln (X) - 0.12
Ln T = 0.81 Ln 287.7 - (0.12)
Ln T = 4.47
T = 87.02
T = 87 vehicle trips
with 54% (**47** vph) entering and 46% (**40** vph) exiting.

Institute of Transportation Engineers (ITE) 8th Edition
Land Use Code (LUC) 710 - General Office Building

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 397.7

Average Weekday Daily

Ln T = 0.77 Ln (X) + 3.65
Ln T = 0.77 Ln 397.7 + (3.65)
Ln T = 8.26
T = 3862.18
T = 3,862 vehicle trips
with 50% (**1,931** vpd) entering and 50% (**1,931** vpd) exiting.

Weekday Morning Peak Hour Of Adjacent Street Traffic

Ln T = 0.80 Ln (X) + 1.55
Ln T = 0.80 Ln 397.7 + (1.55)
Ln T = 6.34
T = 565.98
T = 566 vehicle trips
with 88% (**498** vph) entering and 12% (**68** vph) exiting.

Weekday Evening Peak Hour Of Adjacent Street Traffic

T = 1.12 * (X) + 78.81
T = 1.12 * 397.7 + (78.81)
T = 524.23
T = 524 vehicle trips
with 17% (**89** vph) entering and 83% (**435** vph) exiting.

Saturday Daily

T = 2.14 * (X) + 18.47
T = 2.14 * 397.7 18.47
T = 869.55
T = 870 vehicle trips
with 50% (**435** vpd) entering and 50% (**435** vpd) exiting.

Saturday Midday Peak Hour Of Generator

Ln T = 0.81 Ln (X) - 0.12
Ln T = 0.81 Ln 397.7 - (0.12)
Ln T = 4.73
T = 113.12
T = 113 vehicle trips
with 54% (**61** vph) entering and 46% (**52** vph) exiting.

Institute of Transportation Engineers (ITE) 8th Edition
Land Use Code (LUC) 760 - Research and Development Center

Average Vehicle Trips Ends vs: 1,000 sf gross floor area
Independent Variable (X): 225.7

Average Weekday Daily

Ln T = 0.82 Ln (X) + 3.14
Ln T = 0.82 Ln 225.7 + (3.14)
Ln T = 7.58
T = 1965.99
T = 1,966 vehicle trips
with 50% (**983** vpd) entering and 50% (**983** vpd) exiting.

Weekday Morning Peak Hour Of Adjacent Street Traffic

Ln T = 0.86 Ln (X) + 0.93
Ln T = 0.86 Ln 225.7 + (0.93)
Ln T = 5.59
T = 267.87
T = 268 vehicle trips
with 83% (**222** vph) entering and 17% (**46** vph) exiting.

Weekday Evening Peak Hour Of Adjacent Street Traffic

Ln T = 0.82 Ln (X) + 1.09
Ln T = 0.82 Ln 225.7 + (1.09)
Ln T = 5.53
T = 253.09
T = 253 vehicle trips
with 15% (**38** vph) entering and 85% (**215** vph) exiting.

Saturday Daily

T = 1.27 * (X) + 104.92
T = 1.27* 225.7 + 104.92
T = 391.56
T = 392 vehicle trips
with 50% (**196** vpd) entering and 50% (**196** vpd) exiting.

Saturday Midday Peak Hour Of Generator

T = 0.15 * (X) + 12.75
T = 0.15* 225.7 + 12.75
T = 46.61
T = 46 vehicle trips
with 50% (**23** vpd) entering and 50% (**23** vpd) exiting.

Institute of Transportation Engineers (ITE) 8th Edition
Land Use Code (LUC) 760 - Research and Development Center

Average Vehicle Trips Ends vs: 1,000 sf gross floor area
Independent Variable (X): 287.7

AVERAGE WEEKDAY DAILY

Ln T = 0.82 Ln (X) + 3.14
Ln T = 0.82 Ln 287.7 + (3.14)
Ln T = 7.78
T = 2398.92
T = 2,398 vehicle trips
with 50% (**1,199** vpd) entering and 50% (**1,199** vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

Ln T = 0.86 Ln (X) + 0.93
Ln T = 0.86 Ln 287.7 + (0.93)
Ln T = 5.80
T = 330.05
T = 330 vehicle trips
with 83% (**274** vph) entering and 17% (**56** vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

Ln T = 0.82 Ln (X) + 1.09
Ln T = 0.82 Ln 287.7 + (1.09)
Ln T = 5.73
T = 308.82
T = 309 vehicle trips
with 15% (**46** vph) entering and 85% (**263** vph) exiting.

SATURDAY DAILY

T = 1.27 * (X) + 104.92
T = 1.27* 287.7 + 104.92
T = 470.30
T = 470 vehicle trips
with 50% (**235** vpd) entering and 50% (**235** vpd) exiting.

SATURDAY MIDDAY PEAK HOUR OF GENERATOR

T = 0.15 * (X) + 12.75
T = 0.15* 287.7 + 12.75
T = 55.91
T = 56 vehicle trips
with 50% (**28** vpd) entering and 50% (**28** vpd) exiting.

Institute of Transportation Engineers (ITE) 8th Edition
Land Use Code (LUC) 760 - Research and Development Center

Average Vehicle Trips Ends vs: 1,000 sf gross floor area
Independent Variable (X): 397.7

Average Weekday Daily

Ln T = 0.82 Ln (X) + 3.14
Ln T = 0.82 Ln 397.7 + (3.14)
Ln T = 8.05
T = 3128.39
T = 3,128 vehicle trips
with 50% (**1,564** vpd) entering and 50% (**1,564** vpd) exiting.

Weekday Morning Peak Hour Of Adjacent Street Traffic

Ln T = 0.86 Ln (X) + 0.93
Ln T = 0.86 Ln 397.7 + (0.93)
Ln T = 6.08
T = 436.03
T = 436 vehicle trips
with 83% (**362** vph) entering and 17% (**74** vph) exiting.

Weekday Evening Peak Hour Of Adjacent Street Traffic

Ln T = 0.82 Ln (X) + 1.09
Ln T = 0.82 Ln 397.7 + (1.09)
Ln T = 6.00
T = 402.73
T = 403 vehicle trips
with 15% (**60** vph) entering and 85% (**343** vph) exiting.

Saturday Daily

T = 1.27 * (X) + 104.92
T = 1.27* 397.7 + 104.92
T = 610.00
T = 610 vehicle trips
with 50% (**305** vpd) entering and 50% (**305** vpd) exiting.

Saturday Midday Peak Hour Of Generator

T = 0.15 * (X) + 12.75
T = 0.15* 397.7 + 12.75
T = 72.41
T = 72 vehicle trips
with 50% (**36** vpd) entering and 50% (**36** vpd) exiting.